

## GUIDANCE DOCUMENT

## SEC III—IL—TECHNICAL GUIDE Guidance Documents—Cropland

**Identified problems:** Sheet and rill erosion is at 3 tons. Ephemeral gullies are on end rows and 2 in the middle of the field. No soil testing or scouting have been done for the past 6 years. Poor soil tilth and some compaction is notable for the field. Runoff from field goes directly into a stream, in which a classic gully is working it's way back in the field. High potential for surface water contamination from pesticides and fertilizer.

### **Resource Setting**

CRA-E-MLRA-113

**Soils:** Ava 14C

**Land use:** Cropland, soybeans-soybeans-wheat

**Applied practices:** Grass Waterway

**Tillage operations:** Chisel/disc, 10% residue

RESOURCE CONCERNS	SOIL						
	Erosion				Condition	Deposition	
	Sheet & Rill	Ephemeral	Classic Gully	Streambank	Excess Chemical	Onsite Damage	Offsite Damage
<b>RMS Practices</b>							
<b>Alt. #1</b>							
328 Conservation Crop Rotation	SI+	SI+	0	0	0	SI+	SI+
329b Residue Management, Mulch Till	Sig+	SI+	SI+	0	SI-	Mod+	Mod+
393 Filter Strip	Sig+	SI+	SI+	Mod+	0	Sig+	Mod+
410 Grade Stabilization Structure	N/A	0	Sig+	Sig+	N/A	SI+	SI+
412 Grassed Waterway	0	Sig+	Sig+	SI+	0	SI+	SI+
590 Nutrient Management	0	0	0	0	Sig+	0	0
595 Pest Management	0	0	0	N/A	0	0	0
600 Terrace	Mod+	Sig+	Sig+	Mod+	SI+	Mod+	Mod+
620 Underground Outlet	0	Sig+	Mod+	N/A	0	Mod+	SI+

## GUIDANCE DOCUMENT (continued)

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RESOURCE CONCERNS	WATER						AIR	PLANTS		ANIMALS
	Quality Ground	Surface					Quality	Management		Habitat (Wildlife)
RMS Practices	Pesticides	Pesticides	Nutrients & Organic	Suspended Sediment & Turbidity	Salt	Heave Metals	Airborne Chemical	Nutrient Management	Pest	Cover or Shelter
<b>Alt. #1</b>										
328 Conservation Crop Rotation	0	0	0	SI+	0	0	0	0	0	SI+
329b Residue Management, Mulch Till	0	SI+	Mod+	Mod+	SI+	SI+	SI+	0	0	SI+
393 Filter Strip	SI+	SI+	SI+	Mod+	SI+	SI+	0	N/A	SI-	Sig+
410 Grade Stabilization Structure	0	0	0	SI+	0	0	N/A	Sig+	N/A	Mod+
412 Grassed Waterway	SI-	SI+	Mod+	SI+	0	0	0	SI+	SI+	Sig+
590 Nutrient Management	0	0	Sig+	0	SI+	SI+	0	Sig+	SI+	Mod+
595 Pest Management	SI+	Sig+	0	0	0	0	SI+	Sig+	Sig+	SI-
600 Terrace	Mod+	SI+	SI+	SI+	SI+	0	0	Mod+	SI+	Mod+
620 Underground Outlet	0	SI-	SI-	SI+	0	0	0	N/A	N/A	N/A